Features

- Low $R_{DS(ON)}$
- Low Gate Charge
- 100% UIS Tested, 100% R_g Tested
- Pb-free Lead Plating
- Halogen-free and RoHS-compliant

Product Summary

Parameter	Value	Unit
V_{DS}	60	V
$V_{GS(th)_Typ}$	1.6	V
I_D (@ V_{GS} = 10V) (1)	38	A
$R_{DS(ON)_Typ}$ (@ V_{GS} = 10V)	10.0	m
$R_{DS(ON)_Typ}$ (@ V_{GS} = 4.5V)	12.3	m

Applications

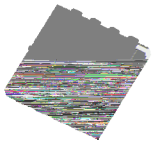
- Power Management in Computing, CE, IE 4.0, Communications
- Current Switching in DC/DC & AC/DC (SR) Sub-systems
- Load Switching, Quick/Wireless Charging, Motor Driving

PDFN3x3-8L

Top View

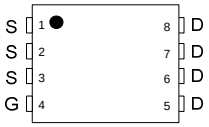


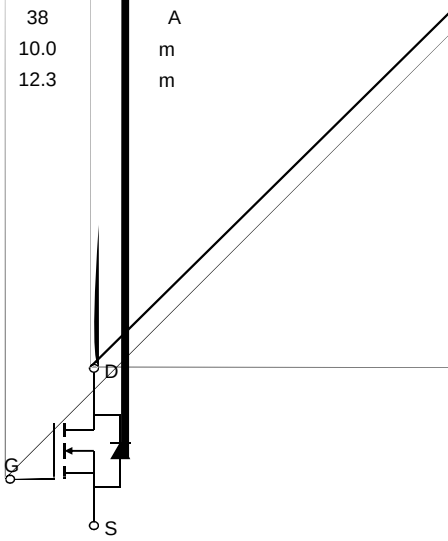
Bottom View



Pin Configuration

Top View



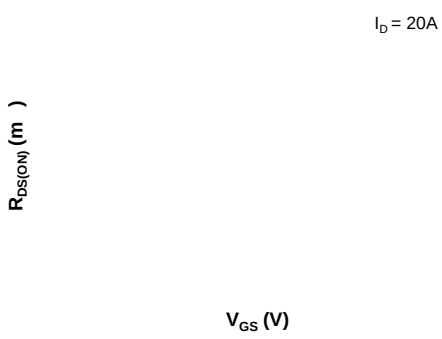


Ordering Information

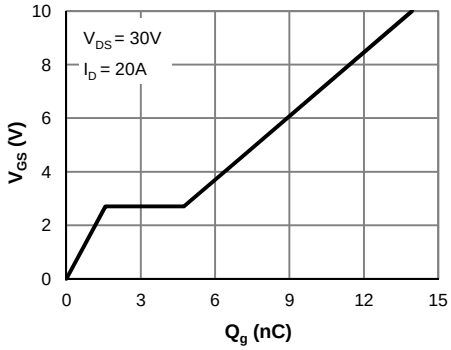
Device	Package	# of Pins	Marking	MSL	T_J (°C)	Media	Quantity (pcs)
	PDFN3x3-8L	8	SL0612A	1	-55 to 150	13-inch Reel	5000

Symbol				Unit
Drain-to-Source Voltage		V_{DS}	60	V
Gate-to-Source Voltage		V_{GS}	±20	V
Continuous Drain Current (1)	T_C = 25°C	I_D	38	A
	T_C = 100°C		24	
Pulsed Drain Current (2)		I_{DM}	151	A
Avalanche Current (3)		I_{AS}	20	A
Avalanche Energy (3)		E_{AS}	20	mJ
Power Dissipation (4)	T_C = 25°C	P_D	31	W
	T_C = 100°C		12.5	
Junction & Storage Temperature Range		T_J, T_{STG}	-55 to 150	°C

$R_{DS(ON)}$ vs. V_{GS}

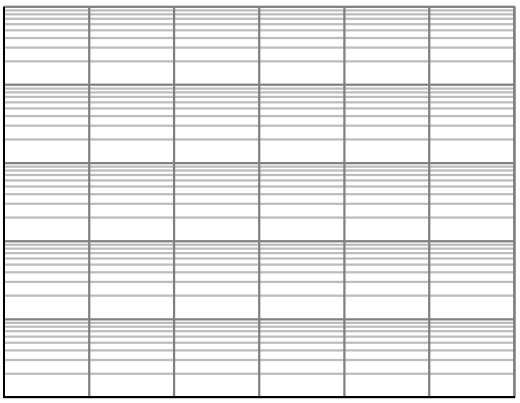


Gate Charge

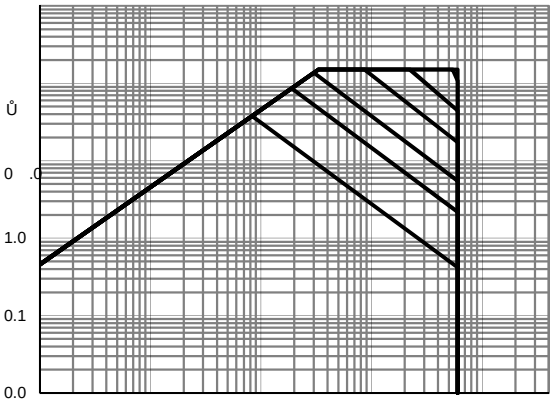


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Typical Electrical & Thermal Characteristics



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PDFN3x3-8L Package Information